

## AWIPS IFPS INSTALLATION INSTRUCTION NOTE 2

(for Electronic Systems Analysts)

Maintenance, Logistics, &amp; Acquisition Division

W/OPS1: FJZ

- SUBJECT** : IFPS 13.3.1 (full) Installation Instructions
- PURPOSE** : To issue IFPS 13.3.1 (full) software upgrade installation instructions.
- AUTHORIZATION** : The authority for this modification note is Request for Change AA976\*
- AFFECTED SITES** : \_All AWIPS sites, except RFCs, must install this release. Alpha test sites currently at IFPS 13.0 will be required to install the delta upgrade version of IFPS 13.2 (patch) and IFPS 13.3.1 (patch).
- VERIFICATION STATEMENT** : The IFPS 13.3.1 (full and patch upgrades) installation procedures were tested and verified on OS&T's NMTW test platform, in Silver Spring, MD
- PREINSTALLATION: REQUIREMENTS** For full install: IFPS 12.2 or later (IFPS 12.3 or IFPS 12.4) must be installed.  
For patch installs: IFPS 13.0 must be installed before IFPS 13.2 patch can be loaded. IFPS 13.2 must be installed before IFPS 13.3.1 patch can be loaded.
- TIME REQUIRED** : \_Approximately 2.0 hours (full install)/approximately 1.0 hour (total for both patch installs)
- SECURITY LEVEL** : \_root
- TECHNICAL SUPPORT** : For questions or problems regarding these installation instructions or installing this Release, please contact the NCF at (301) 713-9344.

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\*AA976 refers to IFPS Version 12.

**GENERAL**

The IFPS 13.3.1 (full) installation upgrade kit includes: 1 CD (labeled IFPS 13.2 Full) and cover letter shipped to effected sites by NGIT and a tar file pushed to each site's /data/local directory, labeled: IFPS13.3Install.tar.gz (dated April 25, 2003).

The IFPS 13.3.1 (patch) installation upgrade kit includes (for alpha sites at IFPS 13.0 only): 1 CD (labeled IFPS 13.2 Patch) and cover letter shipped to effected sites by NGIT and a tar file pushed to each effected site's /data/local directory, labeled: IFPS13.3Install.tar.gz (dated April 25, 2003).

**NOTE:** Refer to the following web address for IFPS 13.3.1 (full) Installation Instructions, Release Notes and other IFPS related material:

<http://www.nws.noaa.gov/mdl/icwf/IFPS13.3Full/IFPS13.3.html>

Refer to the following web addresses for IFPS 13.2 (patch) and IFPS 13.3.1(patch) Installation Instructions, Release Notes and other IFPS related material:

<http://www.nws.noaa.gov/mdl/icwf/IFPS13.2/IFPS13.2.html>

<http://www.nws.noaa.gov/mdl/icwf/IFPS13.3/IFPS13.3.html>

**IFPS 13.3 Delivered Functionality** (Includes all functionality from IFPS 13.0 - IFPS 13.3.1)

- **Changing Grid Domains:** IFPS13 allows users to derive grid domains exclusively from GFE grids without the use of flat files. This new functionality accommodates rectangular grids as well as non-lambert conformal map projections (e.g., polar stereographic).
- **New 'Fix-It Menu' Functions:** The 'Fix-It Menu', accessible from the Product Generation Menu, contains the following two new options:
  - ▶ Create dynamic tables
  - ▶ Remove old tables
- **Disabling the PoP Phrase Above a Certain Threshold:** Using the 'Configure Other Control Constants GUI', a user may establish a threshold for generating PoP phrases in the ZFP. Threshold values provide for a range that will result in no ZFP PoP phrases all the way to ZFP PoP phrases for all PoPs.
- **Disabling Temperature Transition Phrases:** Using the 'Configure Other Control Constants GUI', a user may disable several different ZFP Temperature Transition Phrases (e.g., "TEMPERATURE FALLING TO", "EARLY MORNING HIGH ##...THEN TEMPERATURES FALLING TO", etc.)

- **GRIB2 Encoder enhancements:**

- Prepare\_grib2 now supports the following additional weather parameters:
  - Free air wind
  - Wave height
- Prepare\_grib2 queries the ifpServer for grid definition parameters (e.g., AWIPS grid number, alignment longitude, tangency latitude, etc.)
- Using a product generation menu option, prepare\_grib2 will pack ALL grids regardless of modification status. The default for prepare\_grib2 is to pack and send only the most recently modified grids.
- Prepare\_grib2 searches for grids based on the ICDS library times (i.e., projection times at hour end) rather than at projection times at the beginning of the hour.

- **GFE:** For descriptions and details regarding GFE enhancements available in IFPS13.3.1, please visit the 'Enhancements' section at:

[http://www-md.fsl.noaa.gov/eft/ifps13doc/onlinehelp/CHANGES\\_BUGS\\_FIXES\\_HIGHLIGHTS.html](http://www-md.fsl.noaa.gov/eft/ifps13doc/onlinehelp/CHANGES_BUGS_FIXES_HIGHLIGHTS.html)

- GFE enhancements are in the following areas:
  1. General GFE Enhancements
  2. Smart Initialization Enhancements
  3. Intersite Coordination Enhancements
  4. Text Product/Infrastructure Enhancements
- GFE bug fixes are in the following areas:
  1. User Interface Bug Fixes
  2. General GFE Bug Fixes
  3. Smart Initialization Bug Fixes
  4. Smart Tool Bug Fixes
  5. Daily Forecast Critique Bug Fixes
  6. Intersite Coordination Bug Fixes
  7. Text Product/Infrastructure Bug Fixes
  8. ifpIMAGE Bug Fixes
  9. ifpServer Bug Fixes

**NOTE: Problems and Workarounds**

This section of the IFPS13.3.1 Release Notes highlights special problems and workarounds for IFPS13.3.1.

- **Starting on HP does not read IFPS\_DEF\_WS\_Host as desired (SPR5038 / FR1224)**

**Problem Description:** The IFPS\_DEF\_WS\_HOST was set properly in the ifps-jan.env file, but when launching IFPS from an HP workstation, the host choice is not defaulting to the host defined by IFPS\_DEF\_WS\_HOST.

**Work Around:** Select the proper host when the "Choose Host" dialog appears

**Reporting Site:** JAN

- **Problem Description:** After editing a new color table and selecting "Save...", a red warning dialog comes up. The warning dialog states, "Unable to save color spectrum. NetCDF put failed for colorTable."

**Work Around:** Still to be determined

**Reporting Site:** AJK

**General Installation Guidelines:**

- NCF upgrade support is available from 7AM to 7PM EDT, Monday through Thursday.
- OCONUS sites requiring upgrade assistance outside the set support hours on Thursdays, must coordinate through their AWIPS regional focal point. If the NCF is not advised ahead of time, they will assume a scheduled OCONUS site will follow the set support hours.
- A maximum number of seven sites per day will be upgraded.
- All IFPS 13.3.1 upgrades at CONUS sites must be completed by June 1<sup>st</sup>, 2003. OCONUS sites have until June 12<sup>th</sup> to complete their install.
- Prior to the start of installation, sites should designate a potential operational back-up site should there be sufficient cause to transfer operational responsibilities due to install related problems. Site back-up is **NOT** required during IFPS installations.

**INSTALLATION PROCEDURE**

- Refer to the following web address for IFPS 13.3.1 (full) installation and deinstallation instructions:

<http://www.nws.noaa.gov/mdl/icwf/IFPS13.3Full/IFPS13.3.html#InstallationInstructions>

- Refer to the following web addresses for IFPS 13.2 (patch) and IFPS 13.3.1 (patch) installation and deinstallation instructions:

<http://www.nws.noaa.gov/mdl/icwf/IFPS13.2/IFPS13.2.html#Install>

<http://www.nws.noaa.gov/mdl/icwf/IFPS13.2/IFPS13.2.html#Deinstall>

<http://www.nws.noaa.gov/mdl/icwf/IFPS13.3/IFPS13.3.html#Install>

<http://www.nws.noaa.gov/mdl/icwf/IFPS13.3/IFPS13.3.html#Deinstall>

**REPORTING MODIFICATION**

Report the completed software installation using the Engineering Management Reporting System (EMRS) according to the instructions in the NWS Instruction 30-2104, Maintenance Documentation, Part 4, and Appendix F. A sample EMRS report is attached. As an additional guide, use the information in the table below.

<b>Block #</b>	<b>Block Type</b>	<b>Information</b>
5	Description	Install IFPS 13.3.1
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Downloaded and Installed IFPS version 13.3.1 I.A.W. AWIPS IFPS Installation Instructions Note 2
17a	Mod. No.	IFPS2

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Attachment - Sample EMRS Report

## Attachment - Sample EMRS Report

**A26 Detail Form - ESCM2, SILVER SPRING, MD :: EMRS ANALYST - Microsoft Internet Explorer**

New A26   Commit A26   Place on Hold   Copy A26   Delete A26   Detail Report   Preference   Document Summary   Help

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**GENERAL INFORMATION**

NEW RECORD   WFO\* DVN   Document No.\* DVN30514002

1. Open Date: 05/14/2003   Open Time: 08:00   2. Op Initials: WSH   3. Response Priority: ☐ Immediate ☐ Low ☐ Routine ☒ Not Applicable   4. Close Date: 05/14/2003   Close Time: 10:00

5. Maintenance Description: 475 characters left   AWIPS  
Install IFPS version 13.3

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**EQUIPMENT INFORMATION**

6. Station ID\*: DVN   7. Equipment Code: AWIPS   8. Serial Number: 001   9. TM: M   10. AT: M   11. How Mal: 999

**Alert:** Time Remaining: (For Block 12 use only)

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**13. PARTS USAGE and CONFIGURATION MANAGEMENT REPORTING**

ASN	Vendor Part No. (New Part)	Serial Number (Old Part)	Serial Number (New Part)

New Row   Delete Row

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**14. WORKLOAD INFORMATION**

a. Routine	b. Non-Routine	c. Travel	d. Misc	e. Overtime
Hours   Minutes	Hours   Minutes	Hours   Minutes	Hours   Minutes	Hours   Minutes
			2   0	

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**MISCELLANEOUS INFORMATION**

15. Maintenance Comments: 679 characters left  
Downloaded and installed IFPS Version 13.3 I.A.W. AWIPS IFPS Mod Note 2

16. Tech Initials: WSO

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**17. SPECIAL PURPOSE REPORTING INFORMATION**

a. Mod No.	b. Mod Act/Deact Date	c. Block C	d. Trouble Ticket No.	e. Block E
IFPS2	05/14/2003			

Commit A26   Place on Hold   Copy A26   New A26   Cancel

Done   Internet